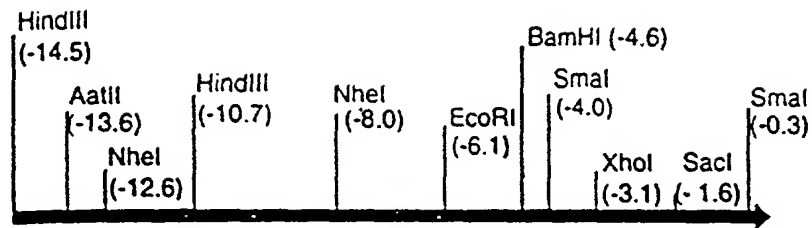


Figure 1



-14463 AAGCTTTTTA GTGCTTTAGA CAGTGAGCTG GTCTGTCTAA CCCAAGTGAC CTGGGCTC  
-14403 TACTCAGCCC CAGAAGTGAA GGGTGAAGCT GGGTGGAGCC AAACCAGGCA AGCCTACC  
-14343 CAGGGCTCCC AGTGGCCTGA GAACCATGG ACCCAGGACC CATTACTTCT AGGGTAAG  
-14283 AGGTACAAAC ACCAGATCCA ACCATGGTCT GGGGGGACAG CTGTCAAATG CCTAAAAA  
-14223 TACCTGGGAG AGGAGCAGGC AAATATCAC TGCCCCAGGT TCTCTGAACA GAAACAGA  
-14163 GGCAACCCAA AGTCCAAATC CAGGTGAGCA GGTGCACCAA ATGCCAGAG ATATGACG  
-14103 GCAAGAAGTG AAGGAACCAC CCCTGCATCA AATGTTTTGC ATGGGAAGGA GAAGGGGG  
-14043 GCTCATGTTC CCAATCCAGG AGAATGCATT TGGGATCTGC CTTCTTCTCA CTCCTTGG  
-13983 AGCAAGACTA AGCAACCAGG ACTCTGGATT TGGGGAAAGA CGTTTATTTG TGGAGGCC  
-13923 TGATGACAAAT CCCACGAGGG CCTAGGTGAA GAGGGCAGGA AGGCTCGAGA CACTGGGG  
-13863 TGAGTGAAAA CCACACCCAT GATCTGCACC ACCCATGGAT GCTCCTTCAT TGCTCACC  
-13803 TCTGTTGATA TCAGATGGCC CCATTTTCTG TACCTTCACA GAGGACACA GGCTAGGG  
-13743 TGTGCATGGC CTTTCATCCCC GGGGCCATGT GAGGACAGCA GGTGGGAAAG ATCATGGG  
-13683 CTCCTGGGTC CTGCAGGGCC AGAACATTCA TCACCCATAC TGACCTCCTA GATGGGAA  
-13623 GCTTCCCTGG GGCTGGGCCA ACGGGGCCCTG GGCAGGGGAG AAAGGACGTC AGGGGACA  
-13563 GAGGAAGGGT CATCGAGACC CAGCCTGGAA GGTTCCTGTC TCTGACCATC CAGGATTT  
-13503 TTCCCTGCAT CTACCTTTGG TCATTTTCCC TCAGCAATGA CCAGCTCTGC TTCCTGAT  
-13443 CAGCCTCCCA CCCTGGACAC AGCACCCAG TCCCTGGCCC GGCTGCATCC ACCCAATA  
-13383 CTGATAACCC AGGACCCATT ACTTCTAGGG TAAGGAGGGT CCAGGAGACA GAAGCTGA  
-13323 AAAGGTCTGA AGAAGTCACA TCTGTCTGG CCAGAGGGGA AAAACCATCA GATGCTGA  
-13263 CAGGAGAATG TTGACCCAGG AAAGGGACCG AGGACCCAAG AAAGGAGTCA GACCACCA  
-13203 GTTTGCCTGA GAGGAAGGAT CAAGGCCCCG AGGGAAAGCA GGGCTGGCTG CATGTGCA

Figure 2 (1 of 11)

-13143 ACACTGGTGG GGCATATGTG TCTTAGATTG TCCCTGAATT CAGTGTCCCT GCCATGGC  
-13083 GACTCTCTAC TCAGGCCTGG ACATGCTGAA ATAGGACAAT GGCCTTGTCC TCTCTCCC  
-13023 CCATTGTGCA AGAGACATAA AGGACATTCC AGGACATGCC TTCCTGGGAG GTCCAGGT  
-12963 TCTGTCTCAC ACCTCAGGGA CTGTAGTTAC TGCATCAGCC ATGGTAGGTG CTGATCTC  
-12903 CCAGCCTGTC CAGGCCCTTC CACTCTCCAC TTTGTGACCA TGTCCAGGAC CACCCCTC  
-12843 ATCCTGAGCC TGCAAATACC CCCTTGCTGG GTGGGTGGAT TCAGTAAACA GTGAGCTC  
-12783 ATCCAGCCCC CAGAGCCACC TCTGTACCT TCCTGCTGGG CATCATCCCA CCTTCACA  
-12723 CACTAAAGAG CATGGGGAGA CCTGGCTAGC TGGGTTTCTG CATCACAAG AAAATAAT  
-12663 CCCAGGTTTCG GATTCCCAGG GCTCTGTATG TGGAGCTGAC AGACCTGAGG CCAGGAGA  
-12603 GCAGAGGTCA GCCCTAGGGA GGGTGGGTCA TCCACCCAGG GGACAGGGT GCACCAGC  
-12543 TGCTACTGAA AGGGCCTCCC CAGGACAGCG CCATCAGCCC TGCCTGAGAG CTTTGCTA  
-12483 CAGCAGTCAG AGGAGGCCAT GGCAGTGGCT GAGCTCCTGC TCCAGGCCCC AACAGACC  
-12423 ACCAACAGCA CAATGCAGTC CTTCCCCAAC GTCACAGGTC ACCAAGGGA AACTGAGG  
-12363 CTACCTAACC TTAGAGCCAT CAGGGGAGAT AACAGCCCA TTTCCCAAAC AGGCCAGT  
-12303 CAATCCCATG ACAATGACCT CTCTGCTCTC ATTCTTCCCA AAATAGGACG CTGATTCT  
-12243 CCCACCATGG ATTTCTCCCT TGTCCTGGGA GCCTTTTCTG CCCCCTATGA TCTGGGCA  
-12183 CCTGACACAC ACCTCCTCTC TGGTGACATA TCAGGGTCCC TCACTGTCAA GCAGTCCA  
-12123 AAGGACAGAA CCTTGGACAG CGCCCATCTC AGCTTCACCC TTCCTCCTTC ACAGGGTT  
-12053 GGGCAAAGAA TAAATGGCAG AGGCCAGTGA GCCCAGAGAT GGTGACAGGC AGTGACCC  
-12003 GGGCAGATGC CTGSAGCAGG AGCTGGCGGG GCCACAGGGA GAAGGTGATG CAGGAAGG  
-11943 AATCCAGAAA TGGGCAGGAA AGGAGGACAC AGGCTCTGTG GGGCTGCAGC CCAGGGTT  
-11883 ACTATGAGTG TGAAGCCATC TCAGCAAGTA AGGCCAGGTC CCATGAACAA GAGTGGGA  
-11823 ACGTGGCTTC CTGCTCTGTA TATGGGGTGG GGGATTCCAT GCCCCATAGA ACCAGATG

Figure 2 (2 of 11)

-11763 CGGGGTTTCAG ATGGAGAAGG AGCAGGACAG GGGATCCCCA GGATAGGAGG ACCCCAGT  
-11703 CCCCACCCAG GCAGGTGACT GATGAATGGG CATGCAGGGT CCTCCTGGGC TGGGCTCT  
-11643 CTTTGTCCCT CAGGATTCTT TGAAGGAACA TCCGGAAGCC GACCACATCT ACCTGGTG  
-11583 TTCTGGGGAG TCCATGTAAA GCCAGGAGCT TGTGTTGCTA GGAGGGGTCA TGGCATGT  
-11523 TGGGGGCACC AAAGAGAGAA ACCTGAGGGC AGGCAGGACC TGGTCTGAGG AGGCATGG  
-11463 GCCCAGATGG GGAGATGGAT GTCAGGAAAG GCTGCCCCAT CAGGGAGGGT GATAGCAA  
-11403 GGGGGTCTGT GGGAGTGGGC ACGTGGGATT CCCTGGGCTC TGCCAAGTTC CCTCCCAT  
-11343 TCACAACCTG GGGACACTGC CCATGAAGGG GCGCCTTTGC CCAGCCAGAT GCTGCTGG  
-11283 CTGCCCATCC ACTACCCTCT CTGCTCCAGC CACTCTGGGT CTTTCTCCAG ATGCCCTG  
-11223 CAGCCCTGGC CTGGGCTGT CCCCTGAGAG GTGTTGGGAG AAGCTGAGTC TCTGGGGA  
-11163 CTCTCATCAG AGTCTGAAAG GCACATCAGG AAACATCCCT GGTCTCCAGG ACTAGGCA  
-11103 GAGGAAAGGG CCCCAGCTCC TCCCTTTGCC ACTGAGAGGG TCGACCCTGG GTGGCCAC  
-11043 TGACTTCTGC GTCTGTCCCA GTCACCCTGA AACCACAACA AAACCCAGC CCCAGACC  
-10983 GCAGGTACAA TACATGTGGG GACAGTCTGT ACCCAGGGGA AGCCAGTTCT CTCTTCCT  
-10923 GAGACCGGGC CTCAGGGCTG TGCCCGGGGC AGGCGGGGGC AGCACGTGCC TGTCCCTG  
-10863 AACTCGGGAC CTTAAGGGTC TCTGCTCTGT GAGGCACAGC AAGGATCCTT CTGTCCAG  
-10803 ATGAAAGCAG CTCCTGCCCC TCCTCTGACC TCTTCTCCT TCCCAAATCT CAACCAAC  
-10743 ATAGGTGTTT CAAATCTCAT CATCAAATCT TCATCCATCC ACATGAGAAA GCTTAAAA  
-10683 CAATGGATTG ACAACATCAA GAGTTGGAAC AAGTGGACAT GGAGATGTTA CTGTGGA  
-10623 TTTAGATGTG TTCAGCTATC GGGCAGGAGA ATCTGTGTCA AATTCCAGCA TGGTTCAG  
-10563 GAATCAAAAA GTGTACAGT CCAAATGTGC AACAGTGCAG GGGATAAAAC TGTGGTGC  
-10503 TCAAACCTGAG GGATATTTTG GAACATGAGA AAGGAAGGGA TTGCTGCTGC ACAGAACA  
-10443 GATGATCTCA CACATAGAGT TGAAAGAAAG GAGTCAATCG CAGAATAGAA AATGATCA

Figure 2 (3 of 11)

-10383 AATTCCACCT CTATAAAGTT TCCAAGAGGA AAACCCAATT CTGCTGCTAG AGATCAGA  
-10323 GGAGGTGACC TGTGCCCTTGC AATGGCTGTG AGGGTCACGG GAGTGTCACT TAGTGCAG  
-10263 AATGTGCCGT ATCTTAATCT GGCAGGGCT TCCATGAGCA CATAGGAATG CAGACATT  
-10203 TGCTGTGTTT ATTTTACTTC ACCGGAAAAG AAGAATAAAA TCAGCCGGGC GCGGTGGC  
-10143 ACGCCTGTAA TCCCAGCACT TTAGAAGGCT GAGGTGGGCA GATTACTTGA GGTCAGGA  
-10083 TCAAGACCAC CCTGGCCAAT ATGGTGAAAC CCCGGCTCTA CTAAAAATAC AAAAATTA  
-10023 TGGGCATGGT GGTGCGCGCC TGTAATCCCA GCTACTCGGG AGGCTGAGGC TGGACAAT  
-9963 CTTGGACCCA GGAAGCAGAG GTTGCACTGA GCCAAGATTG TGCCACTGCA CTCCAGCT  
-9903 GGCAACAGAG CCAGACTCTG TAAAAAATAA AAAAAAATAA AAAAAAGAA AGAAAGAA  
-9843 AGAAAGAAA GTATAAATC TCTTTGGGTT AACAAAAAAT GATCCACAAA ACAACAC  
-9783 GCTCTTATCA AACTTACACA ACTCTGCCAG AGAACAGGAA ACACAAATAC TCATTAC  
-9723 ACTTTTGTGG CAATAAAACC TTCATGTCAA AAGGAGACCA GGACACAATG AGGAAGTA  
-9663 ACTGCAGGCC CTAATTGGGT GCAGAGAGGG AAAATCCACA AATAAAACAT TACCAGAA  
-9603 AGCTAAGATT TACTGCATTG AGTTCATTCC CCAGGTATGC AAGGTGATT TAACACCT  
-9543 AAATCAATCA TTGCCTTTAC TACATAGACA GATTAGCTAG AAAAAATTA CAACTAGC  
-9483 AACAGAAGCA ATTTGGCCTT CCTAAAATC CACATCATAT CATCATGATG GAGACAGT  
-9423 AGACGCCAAT GACAATAAAA AGAGGGACCT CCGTCACCCG GTAAACATGT CCACACAG  
-9363 CCAGCAAGCA CCCGTCTTCC CAGTGAATCA CTGTAACCTC CCCTTTAATC AGCCCCAG  
-9303 AAGGCTGCCT GCGATGGCCA CACAGGCTCC AACCCGTGGG CCTCAACCTC CCGCAGAG  
-9243 TCTCCTTTGG CCACCCCATG GGGAGAGCAT GAGGACAGGG CAGAGCCCTC TGATGCCC  
-9183 ACATGGCAGG AGCTGACGCC AGAGCCATGG GGGCTGGAGA GCAGAGCTGC TGGGGTCA  
-9123 GCTTCCTGAG GACACCCAGG CCTAAGGGAA GGCAGCTCCC TGGATGGGGG CAACCAGG  
-9063 CCGGGCTCCA ACCTCAGAGC CCGCATGGGA GGAGCCAGCA CTCTAGGCCT TTCCTAGG

Figure 2 (4 of 11)

-9003 GACTCTGAGG GGACCCTGAC ACGACAGGAT CGCTGAATGC ACCCGAGATG AAGGGGCC  
-8943 CACGGGACCC TGCTCTCGTG GCAGATCAGG AGAGAGTGGG ACACCATGCC AGGCCCCC  
-8883 GGCATGGCTG CGACTGACCC AGGCCACTCC CCTGCATGCA TCAGCCTCGG TAAGTCAC  
-8823 GACCAAGCCC AGGACCAATG TGAAGGAAG GAAACAGCAT CCCCTTTAGT GATGGAAC  
-8763 AAGGTCAGTG CAAAGAGAGG CCATGAGCAG TTAGGAAGGG TGGTCCAACC TACAGCAC  
-8703 ACCATCATCT ATCATAAGTA GAAGCCCTGC TCCATGACCC CTGCATTTAA ATAAACGT  
-8643 GTTAAATGAG TCAAATTCCC TCACCATGAG AGCTCACCTG TGTGTAGGCC CATCACAC  
-8583 ACAACACAC ACACACACAC ACACACACAC ACACACACAC ACAGGGAAAG TGCAGGAT  
-8523 TGGACAGCAC CAGGCAGGCT TCACAGGCAG AGCAAACAGC GTGARTGACC CATGCAGT  
-8463 CCTGGGCCCC ATCAGCTCAG AGACCCTGTG AGGGCTGAGA TGGGGCTAGG CAGGGGAG  
-8403 ACTTAGAGAG GGTGGGGCCT CCAGGGAGGG GGCTGCAGGG AGCTGGGTAC TGCCCTCC  
-8343 GGAGGGGGCT GCAGGGAGCT GGGTACTGCC CTCCAGGGAG GGGGCTGCAG GGAGCTGG  
-8283 ACTGCCCTCC AGGGAGGGGG CTGCAGGGAG CTGGGTACTG CCCTCCAGGG AGGGGGCT  
-8223 AGGGAGCTGG GTACTGCCCT CCAGGGAGGC AGGAGCACTG TTCCCAACAG AGAGCACA  
-8163 TTCCTGCAGC AGCTGCACAG ACACAGGAGC CCCCATGACT GCCCTGGGCC AGGGTGTG  
-8103 TTCCAAATTT CGTGCCCCAT TGGGTGGGAC GGAGGTTGAC CGTGACATCC AAGGGGCA  
-8043 TGTGATTCCA AACTTAACT ACTGTGCCTA CAAAATAGGA AATAACCTA CTTTTTCT  
-7963 TATCTCAAAT TCCCTAAGCA CAAGCTAGCA CCCTTTAAAT CAGGAAGTTC AGTCACTC  
-7923 GGGGTCTCTC CATGCCCCCA GTCTGACTTG CAGGTGCACA GGGTGGCTGA CATCTGTC  
-7863 TGCTCCTCCT CTTGGCTCAA CTGCCGCCCC TCCTGGGGGT GACTGATGGT CAGGACAA  
-7803 GATCCTAGAG CTGGCCCCAT GATTGACAGG AAGGCAGGAC TTGGCCTCCA TTCTGAAG  
-7743 TAGGGGTGTC AAGAGAGCTG GGCATCCAC AGAGCTGCAC AAGATGACGC GGACAGAG  
-7683 TGACACAGGG CTCAGGGCTT CAGACGGGTC GGGAGGCTCA GCTGAGAGTT CAGGGACA

Figure 2 (5 of 11)

-7623 CCTGAGGAGC CTCAGTGGGA AAAGAAGCAC TGAAGTGGGA AGTTCTGGAA TGTTCTGG  
-7563 AAGCCTGAGT GCTCTAAGGA AATGCTCCCA CCCCGATGTA GCCTGCAGCA CTGGACGG  
-7503 TGTGTACCTC CCGCTGCCC ATCCTCTCAC AGCCCCCGCC TCTAGGGACA CAACTCCT  
-7443 CCTAACATGC ATCTTTCTGT TCTCATTCCA CACAAAAGGG CCTCTGGGGT CCTGTGTC  
-7383 CATTGCAAGG AGTGGAGGTC ACGTTCCAC AGACCACCCA GCAACAGGGT CCTATGGA  
-7323 TGCGGTCAGG AGGATCACAC GTCCCCCAT GCCCAGGGGA CTGACTCTGG GGCTGATG  
-7263 TTGGCCTGGA GGCCACTGGT CCCCTCTGTC CCTGAGGGGA ATCTGCACCC TGGAGGCT  
-7203 CACATCCCTC CTGATTCTTT CAGCTGAGGG CCCTTCTTGA AATCCCAGGG AGGACTCA  
-7143 CCCCCTGGG AAAGGCCAG TGTGGACGGT TCCACAGCAG CCCAGCTAAG GCCCTTGG  
-7083 ACAGATCCTG AGTGAGAGAA CCTTTAGGGA CACAGGTGCA CGGCCATGTC CCCAGTGC  
-7023 ACACAGAGCA GGGGCATCTG GACCCTGAGT GTGTAGCTCC CGCGACTGAA CCCAGCCC  
-6963 CCCCATGAC GTGACCCCTG GGGTGGCTCC AGGTCTCCAG TCCATGCCAC CAAAATCT  
-6903 AGATTGAGGG TCCTCCCTTG AGTCCCTGAT GCCTGTCCAG GAGCTGCCCC CTGAGCAA  
-6843 CTAGAGTGCA GAGGGCTGGG ATTGTGGCAG TAAAAGCAGC CACATTGTG TCAGGAAG  
-6783 AAGGGAGGAC ATGAGCTCCA GGAAGGGCCA TGGCGTCTC TAGTGGGCGC CTCCTGTT  
-6723 TGAGCAAAAA GGGGCCAGGA GAGTTGAGAG ATCAGGGCTG GCCTTGGACT AAGGCTCA  
-6663 TGGAGAGGAC TGAGGTGCAA AGAGGGGGCT GAAGTAGGGG AGTGGTCGGG AGAGATGG  
-6603 GGAGCAGGTA AGGGGAAGCC CCAGGGAGGC CGGGGAGGG TACAGCAGAG CTCTCCAC  
-6543 CTCAGCATTG ACATTGAGGG TGGTCGTGCT AGTGGGGTTC TGTAAGTTGT AGGGTGTT  
-6483 GCACCATCTG GGGACTCTAC CCACTAATG CCAGCAGGAC TCCCTCCCCA AGCTCTAA  
-6423 ACCAACAATG TCTCCAGACT TTCCAAATGT CCCCTGGAGA GCAAAATTGC TTCTGGCA  
-6363 ATCACTGATC TACGTCAGTC TCTAAAAGTG ACTCATCAGC GAAATCCTTC ACCTCTTG  
-6303 AGAAGAATCA CAAGTGTGAG AGGGGTAGAA ACTGCAGACT TCAAAATCTT TCCAAAAG

Figure 2 (6 of 11)

-6243 TTTTACTTAA TCAGCAGTTT GATGTCCCAG GAGAAGATAC ATTTAGAGTG TTTAGAGT  
-6183 ATGCCACATG GCTGCCTGTA CCTCACAGCA GGAGCAGAGT GGGTTTTCCTA AGGGCCTG  
-6123 ACCACAACCTG GAATGACACT CACTGGGTTA CATTACAAAG TGAATGTGG GGAATTCT  
-6063 AGACTTTGGG AAGGGAAATG TATGACGTGA GCCCACAGCC TAAGGCAGTG GACAGTCC  
-6003 TTTGAGGCTC TCACCATCTA GGAGACATCT CAGCCATGAA CATAGCCACA TCTGTCAT  
-5943 GAAAACATGT TTTATTAAGA GGAAAAATCT AGGCTAGAAG TGCTTTATGC TCTTTTTT  
-5883 CTTTATGTTT AAATTCATAT ACTTTTAGAT CATTCCTTAA AGAAGAATCT ATCCCCCT  
-5823 GTAAATGTTA TCACTGACTG GATAGTGTG GTGTCTCACT CCCAACCCT GTGTGGTG  
-5763 AGTGCCCTGC TTCCCCAGCC CTGGGCCCTC TCTGATTCCT GAGAGCTTTG GGTGCTCC  
-5703 CATTAGGAGG AAGAGAGGAA GGGTGTTTT AATATTCTCA CCATTCACCC ATCCACCT  
-5643 TAGACACTGG GAAGAATCAG TTGCCCACTC TTGGATTGA TCCTCGAATT AATGACCT  
-5583 ATTTCTGTCC CTTGTCCAT TCAACAATGT GACAGGCCTA AGAGGTGCCT TCTCCATG  
-5523 ATTTTGTAGG AGAAGGTTCT CAAGATAAGT TTTCTCACAC CTCTTGAAT TACCTCCA  
-5463 TGTGTCCCA TCACCATTAC CAGCAGCATT TGGACCCTTT TTCTGTTAGT CAGATGCT  
-5403 CCACCTCTTG AGGGTGTATA CTGTATGCTC TCTACACAGG AATATGCAGA GGAAATAG  
-5343 AAAGGGAAAT CGCATTACTA TTCAGAGAGA AGAAGACCTT TATGTGAATG AATGAGAG  
-5283 TAAAATCCTA AGAGAGCCCA TATAAAATTA TTACCAGTGC TAAACTACA AAAGTTAC  
-5223 TAACAGTAAA CTAGAATAAT AAAACATGCA TCACAGTTGC TGGTAAAGCT AAATCAGA  
-5163 TTTTTTCTT AGAAAAAGCA TTCCATGTGT GTTGCAAGTGA TGACAGGAGT GCCCTTCA  
-5103 CAATATGCTG CCTGTAATTT TTGTTCCCTG GCAGAAATGTA TTGTCTTTTC TCCCTTTA  
-5043 TCTTAAATGC AAAACTAAAG GCAGCTCCTG GGCCCCCTCC CCAAAGTCAG CTGCCTGC  
-4983 CCAGCCCCAC GAAGAGCAGA GGCCTGAGCT TCCCTGGTCA AAATAGGGGG CTAGGGAG  
-4923 TAACCTTGCT CGATAAAGCT GTGTTCCAG AATGTCGCTC CTGTTCCAG GGGCACCA

Figure 2 (7 of 11)

-4863 CTGGAGGGTG GTGAGCCTCA CTGGTGGCCT GATGCTTACC TTGTGCCCTC ACACCAGT  
 -4803 TCACTGGAAC CTTGAACACT TGGCTGTCGC CCGGATCTGC AGATGTCAAG AACTTCTG  
 -4743 AGTCAAATTA CTGCCCCACTT CTCCAGGGCA GATACCTGTG AACATCCAAA ACCATGCC  
 -4683 AGAACCCCTGC CTGGGGTCTA CAACACATAT GGACTGTGAG CACCAAGTCC AGCCCTGA  
 -4623 CTGTGACCAC CTGCCAAGAT GCCCCTAACT GGGATCCACC AATCACTGCA CATGGCAG  
 -4563 AGCGAGGCTT GGAGGTGCTT CGCCACAAGS CAGCCCCAAT TTGCTGGGAG TTTCTTGG  
 -4503 CCTGGTAGTG GTGAGGAGCC TTGGGACCCT CAGGATTACT CCCCTTAAGC ATAGTGGG  
 -4443 CCCTTCTGCA TCCCCAGCAG GTGCCCCGCT CTTGAGAGCC TCTCTCTCTG AGGTTTAC  
 -4383 AGACCCCTGC ACCAATGAGA CCATGCTGAA GCCTCAGAGA GAGAGATGGA GCTTTGAC  
 -4323 GGAGCCGCTC TTCCTTGAGG GCCAGGGCAG GGAAAGCAGG AGGCAGCACC AGGAGTGG  
 -4263 ACACCAGTGT CTAAGCCCCT GATGAGAACA GGGTGGTCTC TCCCATATGC CCATACCA  
 -4203 CCTGTGAACA GAATCCTCCT TCTGCAGTGA CAATGTCTGA GAGGACGACA TGTTTCCC  
 -4143 CCTAACGTGC AGCCATGCCC ATCTACCCAC TGCTACTGC AGGACAGCAC CAACCCAG  
 -4083 GCTGGGAAGC TGGGAGAAGA CATGGAATAC CCATGGCTTC TCACCTTCCT CCAGTCCA  
 -4023 GGGCACCATT TATGCTAGG ACACCCACCT GCCGGCCCCA GGCTCTTAAG AGTTAGGT  
 -3963 CCTAGGTGCC TCTGGGAGGC CGAGGCAGGA GAATTGCTTG AACCOCGGAG GCAGAGGT  
 -3903 CAGTGAGCOG AGATCACACC ACTGCACTCC AGCCTGGGTG ACAGAATGAG ACTCTGTC  
 -3843 AAAAAAAG AGAAAGATAG CATCAGTGGC TACCAAGGGC TAGGGGCAGG GGAAGGTG  
 -3783 GAGTTAATGA TTAATAGTAT GAAGTTTCTA TGTGAGATGA TGAAAATGTT CTGGAAAA  
 -3723 AAATATAGTG GTGAGGATGT AGAATATTGT GAATATAATT AACGGCATT TATTGTAC  
 -3663 TTAACATGAT TAATGTGGCA TATTTTATCT TATGTATTG ACTACATCCA AGAAACAC  
 -3603 GGAGAGGGAA AGCCCACCAT GTAAAATACA CCCACCCTAA TCAGATAGTC CTCATTGT  
 -3543 CCAGGTACAG GCCCCTCATG ACCTGCACAG GAATAACTAA GGATTTAAGG ACATGAGG

Figure 2 (8 of 11)

-3483 TCCCAGCCAA CTGCAGGTGC ACAACATAAA TGTATCTGCA AACAGACTGA GAGTAAAG  
-3423 GGGGGCACAA ACCTCAGCAC TGCCAGGACA CACACCTTC TCGTGGATTC TGACTTTA  
-3363 TGACCCGGCC CACTGTCCAG ATCTTGTGT GGGATTGGGA CAAGGGAGGT CATAAAGC  
-3303 GTCCCCAGGG CACTCTGTGT GAGCACACGA GACCTCCCCA CCCCCCACC GTTAGGTC  
-3243 CACACATAGA TCTGACCATT AGGCATTGTG AGGAGGACTC TAGCGCGGGC TCAGGGAT  
-3183 CACCAGAGAA TCAGGTACAG AGAGGAAGAC GGGGCTCGAG GAGCTGATGG ATGACACA  
-3123 GCAGGGTTCC TGCAGTCCAC AGGTCCAGCT CACCCTGGTG TAGGTGCCCC ATCCCCCT  
-3063 TCCAGGCATC CCTGACACAG CTCCCTCCCG GAGCCTCCTC CCAGGTGACA CATCAGGG  
-3003 CCTCACTCAA GCTGTCCAGA GAGGGCAGCA CCTTGGACAG CGCCACCCC ACTTCACT  
-2943 TCCTCCCTCA CAGGGCTCAG GGCTCAGGGC TCAAGTCTCA GAACAAATGG CAGAGGCC  
-2883 TGAAGCCAGA GATGGTGACA GGGCAATGAT CCAGGGGCAG CTGCCTGAAA CGGGAGCA  
-2823 TGAAGCCACA GATGGGAGAA GATGGTTCAG GAAGAAAAT CCAGGAATGG GCAGGAGA  
-2763 AGAGGAGGAC ACAGGCTCTG TGGGGCTGCA GCCCAGGATG GGACTAAGTG TGAAGACA  
-2703 TCAGCAGGTG AGGCCAGGTC CCATGAACAG AGAAGCAGCT CCCACCTCCC CTGATGCA  
-2643 GACACACAGA GTGTGTGGTG CTGTGCCCCC AGAGTCGGGC TCTCCTGTTC TGGTCCCC  
-2583 GGAGTGAGAA GTGAGGTTGA CTGTCCCTG CTCCTCTCTG CTACCCCAAC ATTCACT  
-2523 TCCTCATGCC CCTCTCTCTC AAATATGATT TGGATCTATG TCCCGGCCCA AATCTCAT  
-2463 CAAATTGTAA ACCCCAATGT TGGAGGTGGG GCCTTGTGAG AAGTGATTGG ATAATGCG  
-2403 TGGATTTTCT GCTTTGATGC TGTTCCTGTG ATAGAGATCT CACATGATCT GGTGTGTT  
-2343 AAGTGTGTAG CACCTCTCCC CTCTCTCTCT CTCTCTCTTA CTCATGCTCT GCCATGTA  
-2283 ACGTTCCTGT TTCCCTTCA CCGTCCAGAA TGATTGTAAG TTTTCTGAGG CCTCCCCA  
-2223 AGCAGAAGCC ACTATGCTTC CTGTACAAC GCAGAATGAT GAGCGAATTA AACCTCTT  
-2163 CTTTATAAAT TACCCAGTCT CAGGTATTTC TTTATAGCAA TGCGAGGACA GACTAATA

Figure 2 (9 of 11)

-2103 ATCTTCTACT CCCAGATCCC CGCACACGCT TAGCCCCAGA CATCACTGCC CCTGGGAG  
-2043 TGCACAGCGC AGCCTCCTGC CGACAAAAGC AAAGTCACAA AAGGTGACAA AAATCTGC  
-1983 TTGGGGACAT CTGATTGTGA AAGAGGGAGG ACAGTACACT TGTAGCCACA GAGACTGG  
-1923 CTCACCGAGC TGAAACCTGG TAGCACTTTG GCATAACATG TGCATGACCC GTGTTCAA  
-1863 TCTAGAGATC AGTGTTGAGT AAAACAGCCT GGTCTGGGGC CGCTGCTGTC CCCACTTC  
-1803 TCCTGTCCAC CAGAGGGCGG CAGAGTTCCT CCCACCCTGG AGCCTCCCCA GGGGCTGC  
-1743 ACCTCCCTCA GCGGGGCCCA CAGCCCAGCA GGGTCCACCC TCACCCGGGT CACCTCGG  
-1663 CACGTCTCTC TCGCCCTCCG AGTCTCTCAC ACGGACTCTG TCAGCTCCTC CCTGCAGC  
-1623 ATCGGCCGCC CACCTGAGGC TTGTGGGCG CCCACTTGAG GCCTGTCGSC TGCCCTCT  
-1563 AGGCAGCTCC TGTCCCTAC ACCCCCTCT TCCCCGGGT CAGCTGAAAG GGCCTCTC  
-1503 AGGGCAGCTC CCTGTGATCT CCAGGACAGC TCAGTCTCTC ACAGGCTCCG ACGCCCCC  
-1443 TGCTGTCACC TCACAGCCCT GTCATTACCA TTAATCCTC AGTCCCATGA AGTTCACT  
-1383 GCGCCTGTCT CCCGGTTACA GGAAACTCT GTGACAGGA CCACGTCTGT CCGTCTCT  
-1323 GTGGAATCCC AGGGCCCAGC CCAGTGCTG ACACGGAACA GATGCTCCAT AAATACTG  
-1263 TAAATGTGTG GGAGATCTCT AAAAAGAAGC ATATCACCTC CGTGTGGCCC CCAGCAGT  
-1203 GAGTCTGTTT CATGTGGACA CAGGGGCACT GGCACCAGCA TGGGAGGAGG CCAGCAAG  
-1143 CCCGCGGCTG CCCCAGGAAT GAGGCCTCAA CCCCAGAGC TTCAGAAGGG AGGACAGA  
-1083 CCTGCAGGGA ATAGATCCTC CGGCCTGACC CTGCAGCCTA ATCCAGAGTT CAGGGTCA  
-1023 TCACACCAGC TCGACCCTGG TCAGCATCCC TAGGGCAGTT CCAGACAAGG CCGGAGGT  
-963 CCTCTTGCCC TCCAGGGGGT GACATTGCAC ACAGACATCA CTCAGGAAC GGATTCCC  
-903 GGACAGGAAC CTGGCTTTGC TAAGGAAGTG GAGGTGGAGC CTGGTTTCCA TCCCTTGC  
-843 CAACAGACCC TTCTGATCTC TCCCACATAC CTGCTCTGTT CCTTTCTGGG TCCTATGA  
-783 ACCCTGTTCT GCCAGGGGTC CCTGTGCAAC TCCAGACTCC CTCTGGTAC CACCATGG

Figure 2 (10 of 11)

-723 AAGGTGGGGT GATCACAGGA CAGTCAGCCT CGCAGAGACA GAGACCACCC AGGACTGT  
-663 GGGAGAACAT GGACAGGCCC TGAGCCGCAG CTCAGCCAAC AGACACGGAG AGGGAGGG  
-603 CCCCTGGAGC CTCCCCAAG GACAGCAGAG CCCAGAGTCA CCCACCTCCC TCCACCAC  
-543 TCCTCTCTTT CCAGGACACA CAAGACACCT CCCCCTCCAC ATGCAGGATC TGGGGACT  
-483 TGAGACCTCT GGGCCTGGGT CTCCATCCCT GGGTCAGTGG CGGGGTTGGT GGTACTGG  
-423 ACAGAGGGCT GGTCCCTCCC<sup>2</sup> CAGCCACCAC CCAGTGAGCC TTTTCTAGC CCCCAGAG  
-363 ACCTCTGTCA CCTTCCTGTT GGGCATCATC CCACCTTCCC AGAGCCCTGG AGAGCATG  
-303 GAGACCCGGG ACCCTGCTGG GTTTCTCTGT CACAAAGGAA AATAATCCCC CTGGTGTG  
-243 AGACCCAAGG ACAGAACACA GCAGAGGTCA GCACTGGGGA AGACAGGTTG TCCTCCCA  
-163 GGATGGGGGT CCATCCACCT TGCCGAAAAG ATTTGTCTGA GGAAGTAAA ATAGAAGG  
-123 AAAAAGAGGA GGGACAAAAG AGGCAGAAAT GAGAGGGGAG GGGACAGAGG ACACCTGA  
-63 AAAGACCACA CCCATGACCC ACGTGATGCT GAGAAGTACT CCTGCCCTAG GAAGAGAC  
+3 AGGGCAGAGG GAGGAAGGAC AGCAGACCAG ACAGTCACAG CAGCCTTGAC AAAACGTT  
57 TGGAACTCAA GCTCTTCTCC ACAGAGGAGG ACAGAGCAGA CAGCAGAGAC CATGGAGT  
117 CCCTCGGCCC CTCCCCACAG ATGGTGCATC CCCTGGCAGA GGCTCCTGCT CACAGGTG  
177 GGGAGGACAA CCTGGGAGAG GGTGGGAGGA GGGAGCTGGG GTCTCCTGGG TAGGACAG  
237 CTGTGAGACG GACAGAGGGC TCCTGTTGGA GCCTGAATAG GGAAGAGGAC ATCAGAGA  
297 GACAGGAGTC ACACCAGAAA AATCAAATTG AACTGGAATT GGAAGGGGC AGGAAAAC  
357 CAAGAGTTCT ATTTTCCTAG TTAATTGTCA CTGGCCACTA CGTTTTTAAA AATCATAA  
417 ACTGCATCAG ATGACACTTT AAATAAAAAC ATAACCAGG CATGAAACAC TGTCCTCA  
477 CGCCTACCGC GGACATTGGA AAATAAGCCC CAGGCTGTGG AGGGCCCTGG GAACCTC  
537 GAACTCATCC ACAGGAATCT GCAGCCTGTC CCAGGCACTG GGGTGCAACC AAGATC

Figure 2 (11 of 11)

Figure 3

CEA E1a and E1b Adenovirus Constructs

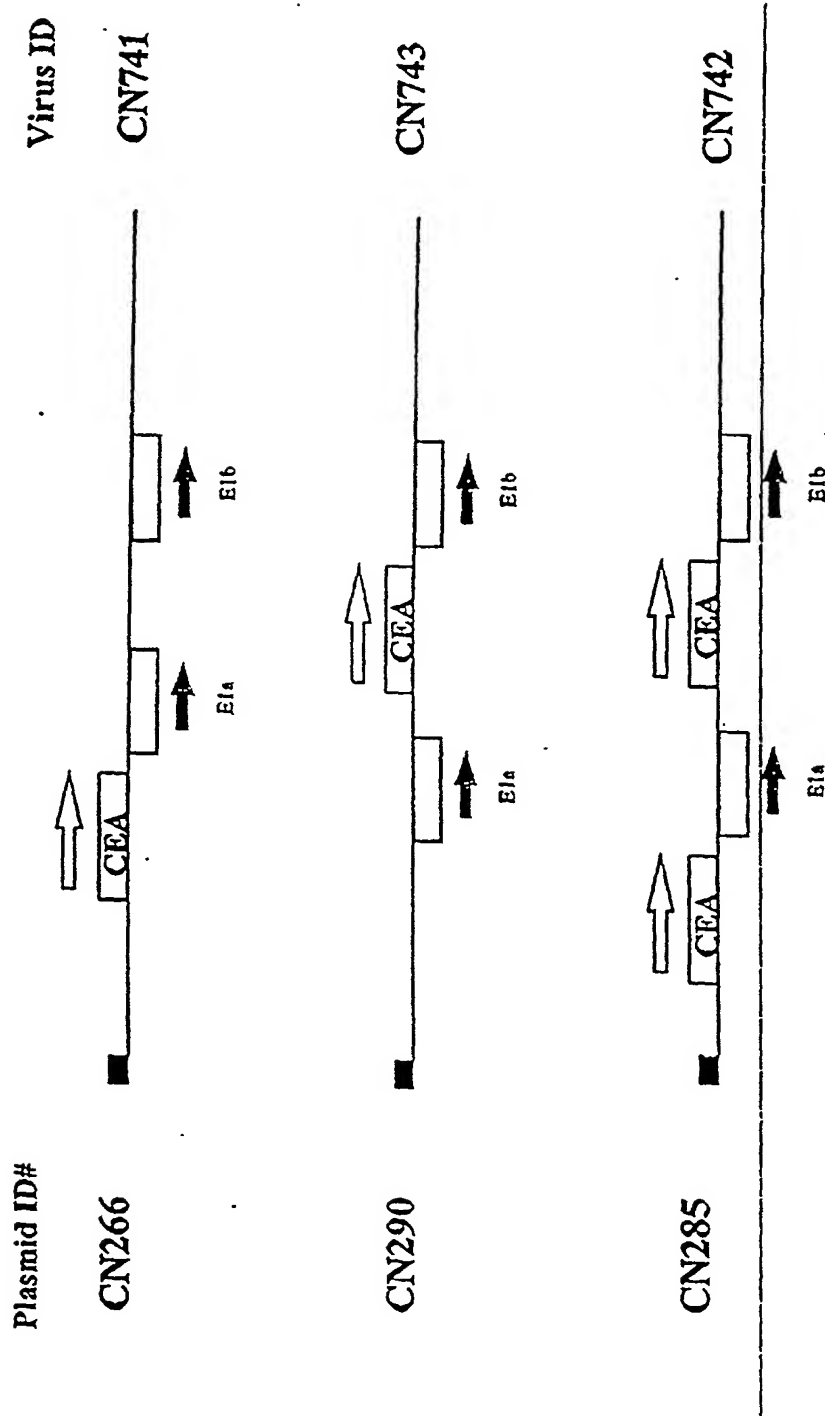


Figure 4

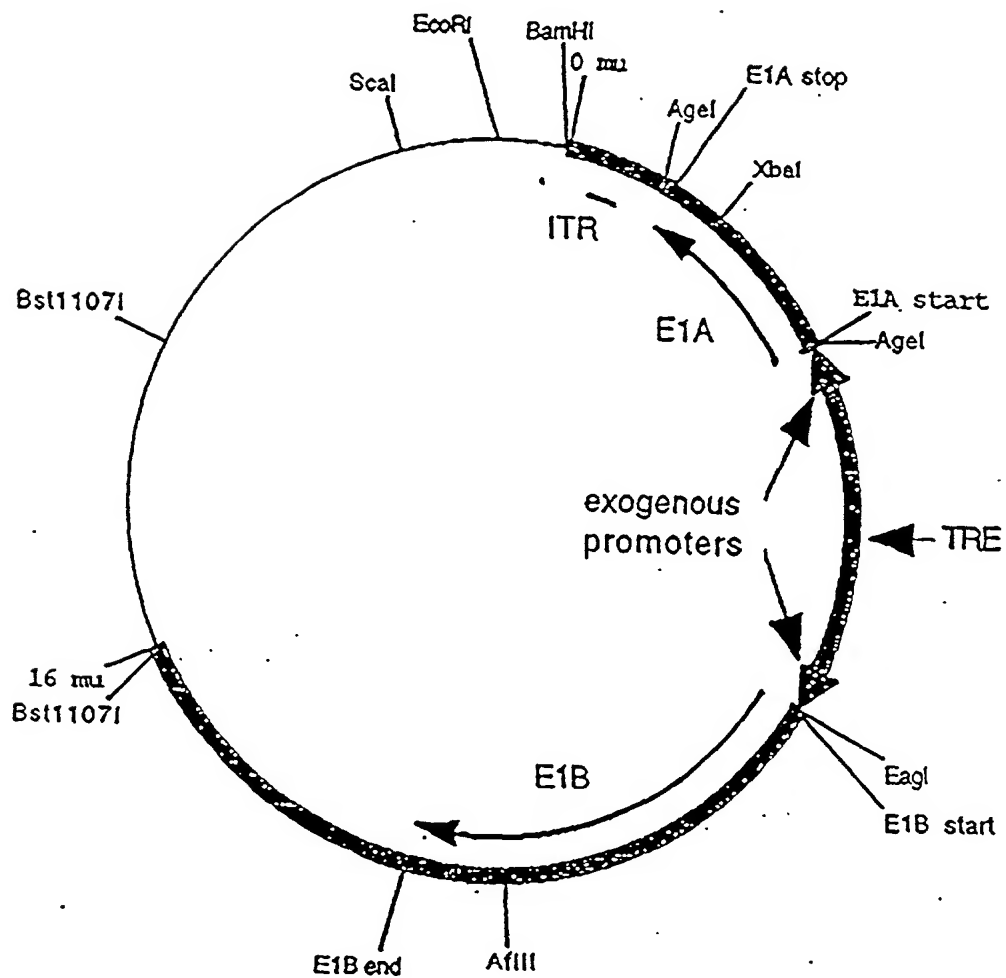


Figure 5A

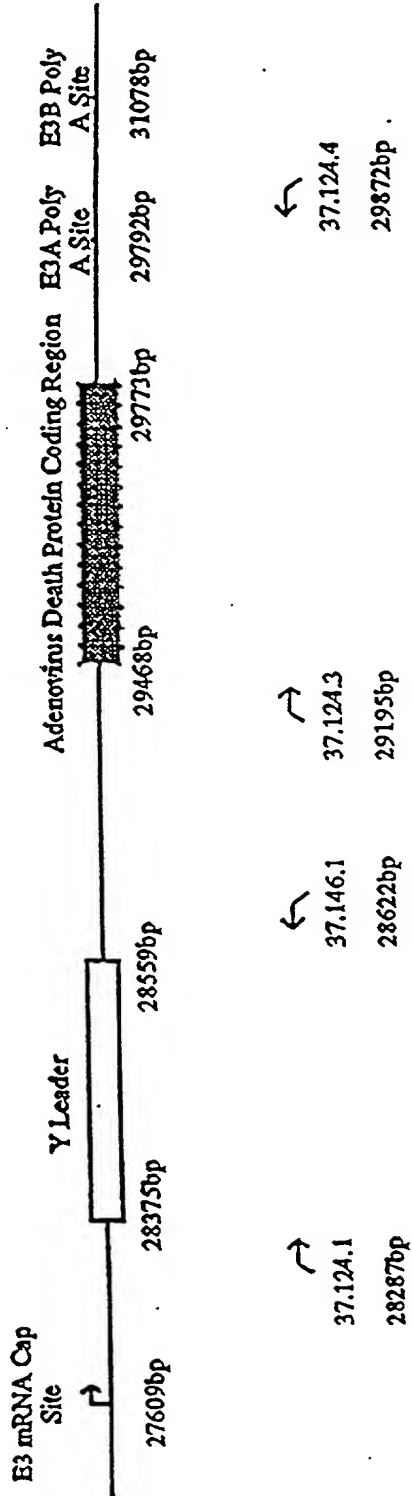


Figure 5B

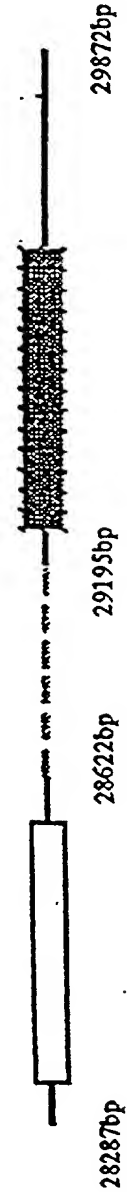


Figure 6

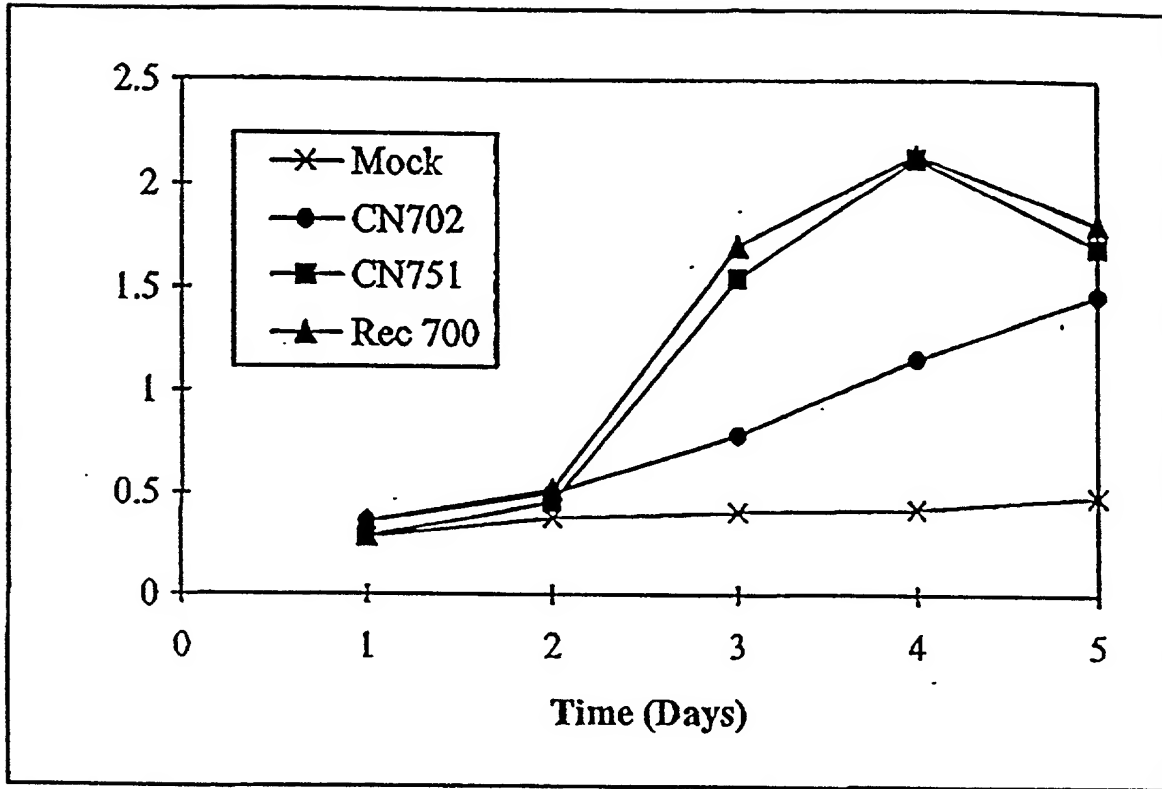


Figure 7

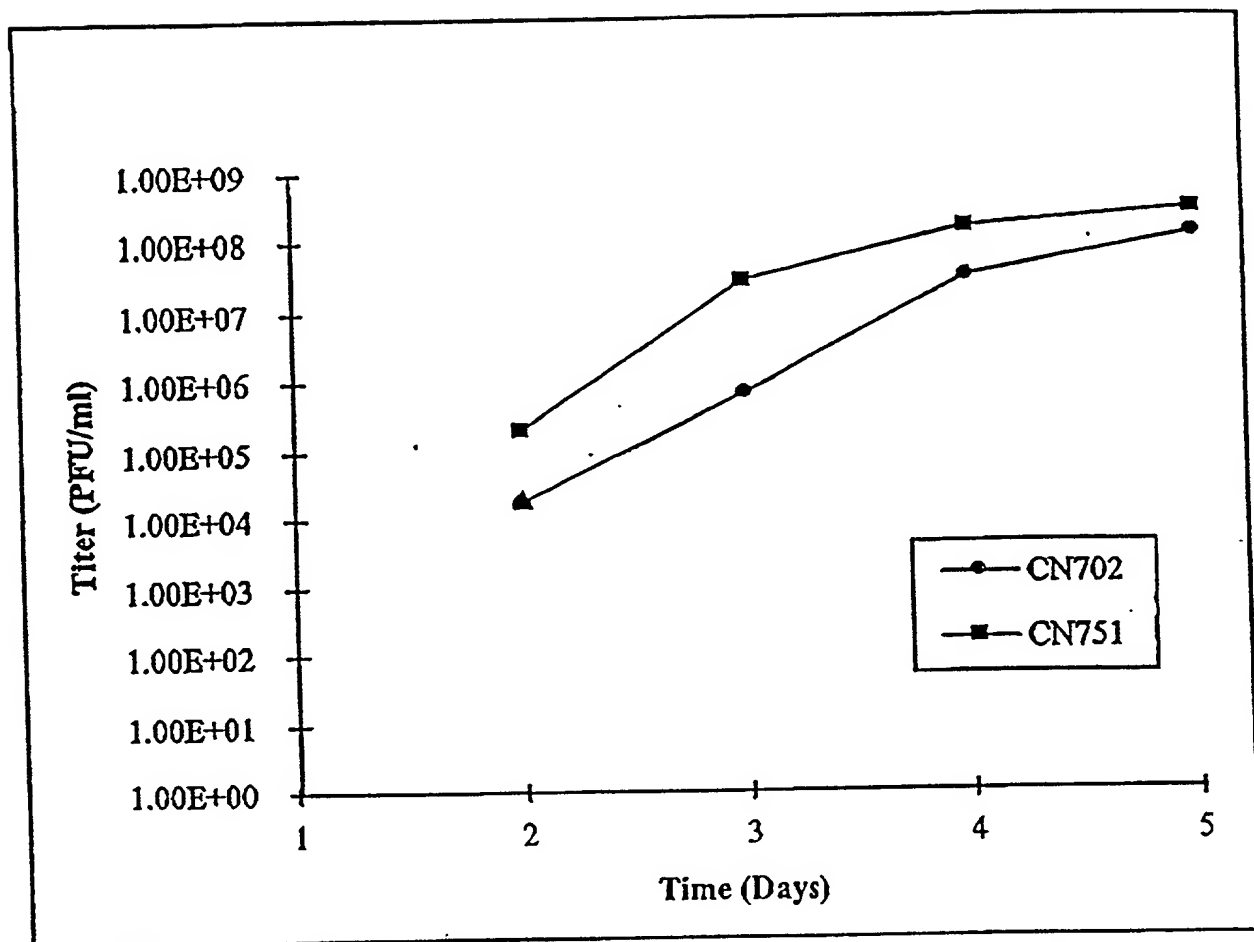
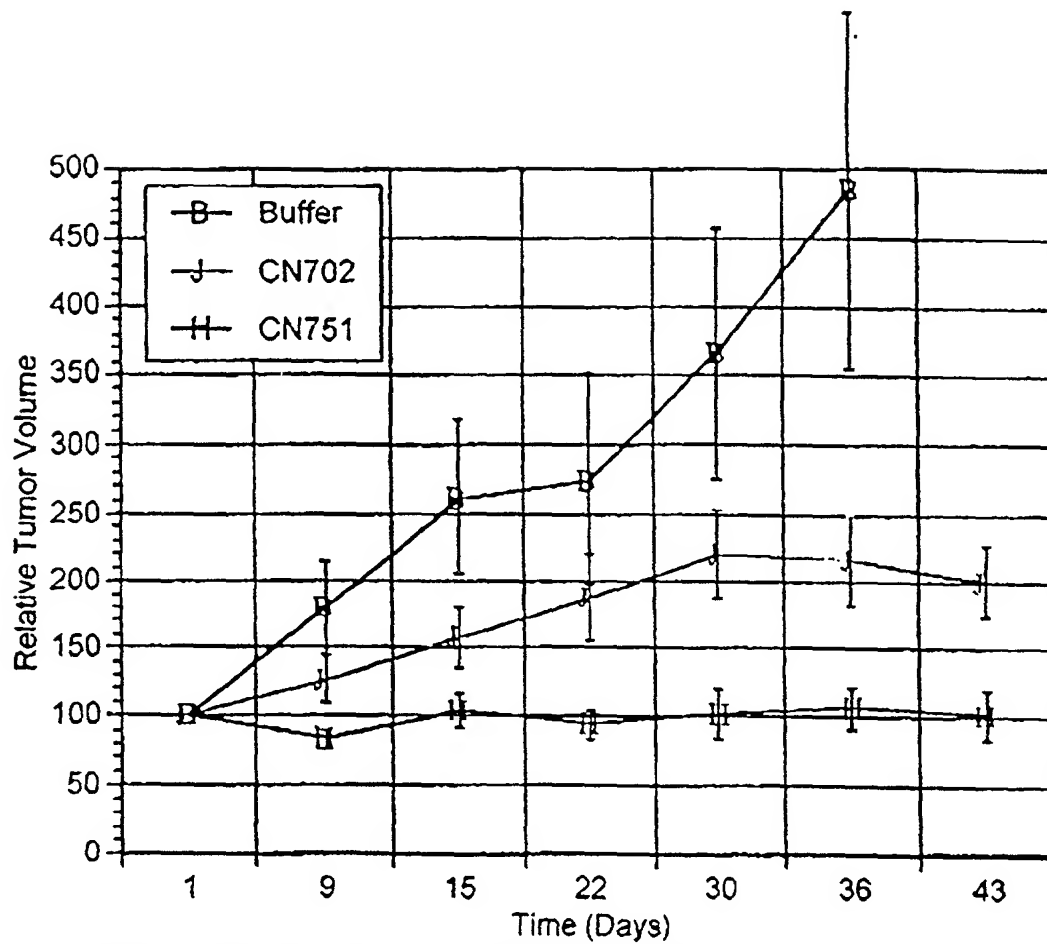


Figure 8



Note: Buffer treated animals were sacrificed after four weeks because of excessive tumor burden